



## Risk mapping and early warning systems for the control of meningitis in Africa

---

**Author(s):** Cuevas LE, Jeanne I, Molesworth A, Bell M, Savory EC, Connor SJ, Thomson MC  
**Year:** 2007  
**Journal:** Vaccine. 25 (SUPPL. 1): A12-A17

---

### Abstract:

Epidemics of meningococcal meningitis in Africa have plagued the continent for over a century. These epidemics have a strong association with the environment and efforts are being made to develop models to predict both their location and their incidence. This review describes the predictive models based on climate/environmental information currently available, describes work in progress, and presents evidence that the distribution of the epidemics is changing in a pattern that is compatible with changes in the environment. Discussion of priorities for research in the context of the new conjugate vaccines in Africa is also provided.

**Source:** <http://dx.doi.org/10.1016/j.vaccine.2007.04.034>

### Resource Description

#### Early Warning System: ☒

resource focus on systems used to warn populations of high temperatures, extreme weather, or other elements of climate change to prevent harm to health

A focus of content

#### Exposure : ☒

weather or climate related pathway by which climate change affects health

Air Pollution, Extreme Weather Event, Meteorological Factors, Precipitation

**Air Pollution:** Dust

**Extreme Weather Event:** Drought

#### Geographic Feature: ☒

resource focuses on specific type of geography

None or Unspecified

#### Geographic Location: ☒

resource focuses on specific location

Non-United States

# Climate Change and Human Health Literature Portal

**Non-United States:** Africa

**Health Impact:** ☒

specification of health effect or disease related to climate change exposure

Infectious Disease

**Infectious Disease:** Airborne Disease

**Airborne Disease:** Meningitis

**Mitigation/Adaptation:** ☒

mitigation or adaptation strategy is a focus of resource

Adaptation

**Model/Methodology:** ☒

type of model used or methodology development is a focus of resource

Methodology

**Resource Type:** ☒

format or standard characteristic of resource

Review

**Timescale:** ☒

time period studied

Time Scale Unspecified